

Claims

1. A method for encoding an XML-based document (DOC) which includes contents according to an XML schema language definition, wherein:
a coded binary representation (BDOC) of the document is generated by assigning binary structure codes (SBC) to the contents of the document via code tables (CT), with structure codes (SBC) being assigned to textual contents of a "complex type" data type with the "mixed" content model.
2. The method as claimed in claim 1, wherein the assignment of the structure codes (SBC) to the textual contents of a "complex type" data type with "mixed" content model is effected exclusively via OperandTBC coding tables.
3. The method as claimed in claim 1 or 2, wherein the textual contents of a "complex type" data type with the "mixed" content model are further assigned "position codes".
4. The method as claimed in claim 3, wherein "single element position codes" (SPC) and/or "multiple element position codes" (MPC) are used in the assignment of the "position codes".
5. The method as claimed in claim 3 or 4, wherein the "position codes" are encoded using codes of variable length.
6. The method as claimed in claim 5, wherein the "position codes" are encoded using the code vluimsbf5.
7. A method for decoding a binary representation of an XML-based document (DOC) encoded by means of a method as

claimed in one of the preceding claims, wherein binary representations of textual contents of a "complex type" data type with the "mixed" content model, to which structure codes (SBC) were assigned during the encoding, are converted into the textual contents of the XML-based document which were assigned to the structure codes (SBC).

8. The method as claimed in claim 7, wherein the assignment is effected by means of structure codes (SBC) via OperandTBC coding tables.
9. The method as claimed in claim 7 or 8 for decoding a binary representation of an XML-based document (DOC) encoded by means of a method according to one of the claims 3 to 6, wherein binary representations of textual contents of a "complex type" data type with the "mixed" content model, addressed by means of "position codes", are further converted into textual contents at the assigned position.
10. The method as claimed in claim 9, wherein the "position codes" comprise "single element position codes" (SPC) and/or "multiple element position codes" (MPC).
11. The method as claimed in claim 9 or 10, wherein the "position codes" are encoded using codes of variable length.
12. The method as claimed in claim 11, wherein the "position codes" are encoded using the code vluimsbf5.
13. A method for encoding and decoding XML-based documents, comprising a method as claimed in one of the claims 1 to 6 and a method as claimed in one of the claims 7 to 12.

14. A device for encoding XML-based documents according to a method as claimed in one of the claims 1 to 6, comprising a storage means in which at least one assignment of a textual content of a "complex type" data type with the "mixed" content model to a structure code (SBC) is stored.
15. A device for decoding a coded binary representation of an XML-based document according to a method as claimed in one of the claims 7 to 12, comprising a storage means in which at least one assignment of a structure code (SBC) to a textual content of a "complex type" data type with the "mixed" content model is stored.
16. A device for encoding and decoding an XML-based document (DOC), comprising the device as claimed in claim 14 and the device as claimed in claim 15.